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17522 U.S. PTO  
10/606584  
06/26/03

Sir:  
Transmitted herewith for filing is the Patent Application of:  
Inventors: Toru Asano, Sang Hoo Dhong, Takaaki Nakazato, and Osamu Takahashi  
For: Apparatus and Method of Worldling/Bitline Redundancy Control Using Shift Registers in an SPRAM  
Assignee Name: International Business Machines Corporation  
Assignee Residence: Armonk, New York  
Assignee Name: Toshiba America Electronic Components, Inc  
Assignee Residence: Irvine, California  
Assignee Name: Kabushiki Kaisha Toshiba  
Assignee Residence: Tokyo, Japan

Enclosed are:  
☒ 10 Patent Specification including an Abstract  
☒ 4 Pages of Claims  
☒ 2 Sheet(s) of drawings. ☐ Informal ☒ Formal  
☒ 2 Declaration(s) and Power of Attorney  
☒ Form PTO 1595 and Assignment of the Invention to IBM Corporation  
☒ Form PTO 1595 and Assignment of the Invention to Toshiba America Electronic Components  
☒ Form PTO 1595 and Assignment of the Invention to Kabushiki Kaisha Toshiba  
☒ A certified copy of a      application.  
☐ Information Disclosure Statement, PTO 1449 and copies of      references.

The filing fee has been calculated as shown below:

	FOR	Number Filed	Number Extra	Rate	Basic Fee \$750.00
Total Claims		20	0	X \$ 18	= \$ 00.00
Independent Claims		3	0	X \$ 84	= \$ 00.00
Multiple Dependent Claims		00		X \$280	=
Total Filing Fee					= \$ 750.00

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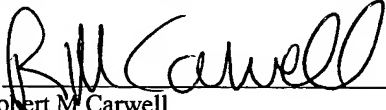
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☒ Any additional filing fees required under 37 CFR 1.16.

☒ Any patent application processing fees under 37 CFR 1.17.

Respectfully submitted,

By   
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